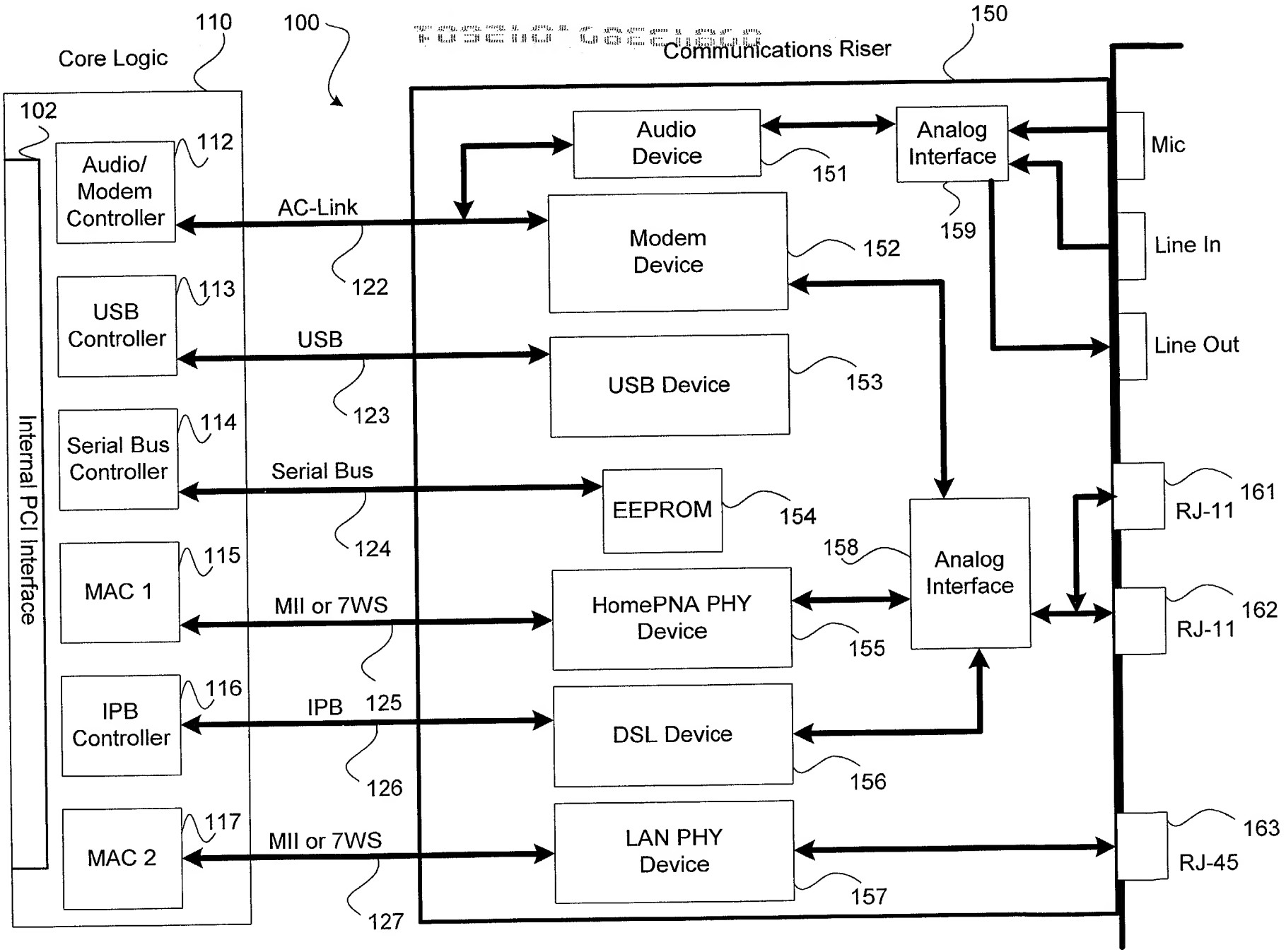
Core Logic
110
100
Communications Riser
150
102
Audio/
Modem
Controller
112
AC-Link
122
USB
Controller
113
USB
123
Serial Bus
Controller
114
Serial Bus
124
MAC 1
115
MII or 7WS
125
IPB
Controller
116
IPB
126
MAC 2
117
MII or 7WS
127
Internal PCI Interface
Audio
Device
151
Modem
Device
152
USB Device
153
EEPROM
154
HomePNA PHY
Device
155
DSL Device
156
LAN PHY
Device
157
Analog
Interface
159
Analog
Interface
158
Mic
Line In
Line Out
RJ-11
161
RJ-11
162
RJ-45
163

FIG. 1

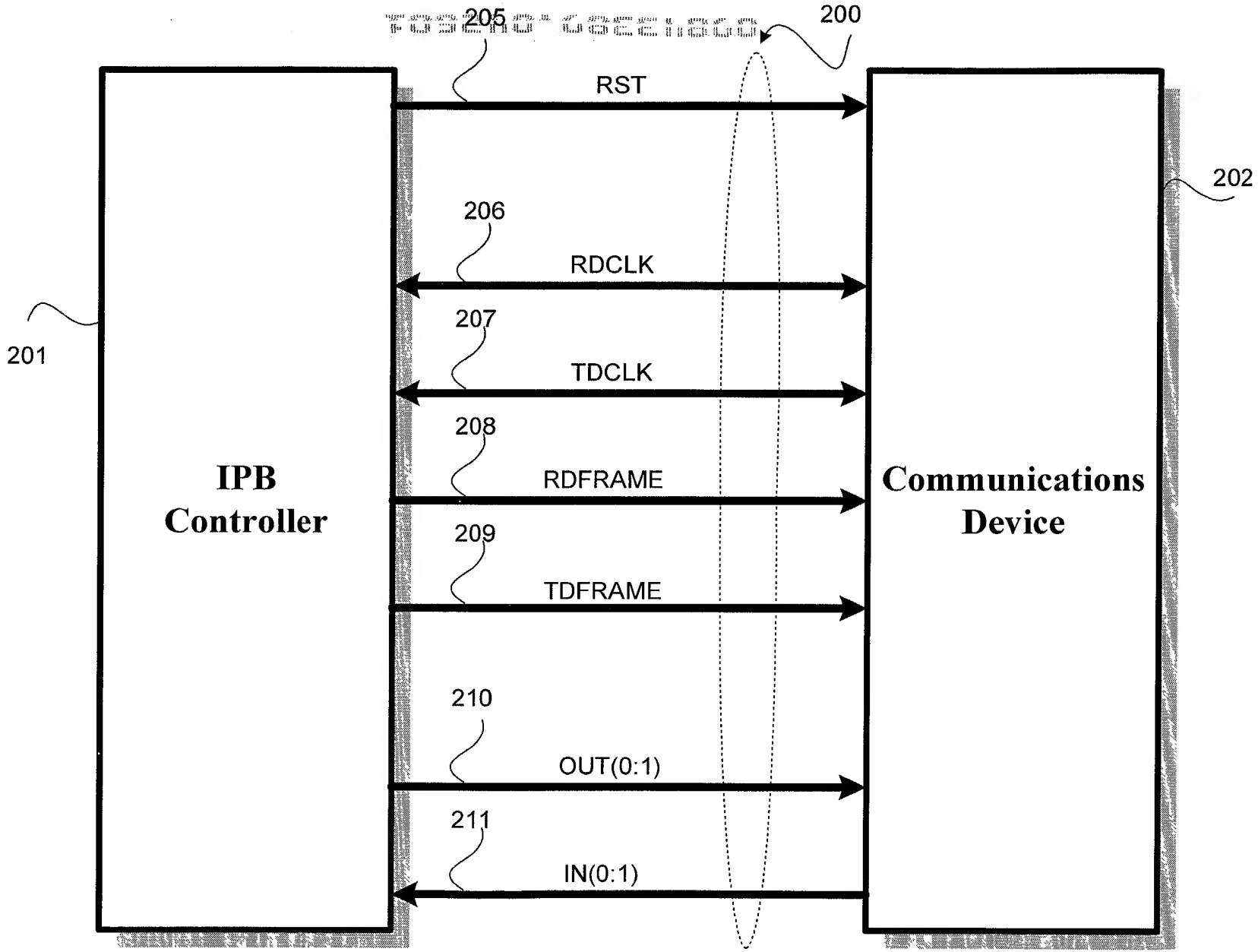
205
200
RST
202
206
RDCLK
201
207
TDCLK
208
IPB
Controller
RDFRAME
Communications
Device
209
TDFRAME
210
OUT(0:1)
211
IN(0:1)

FIG. 2a

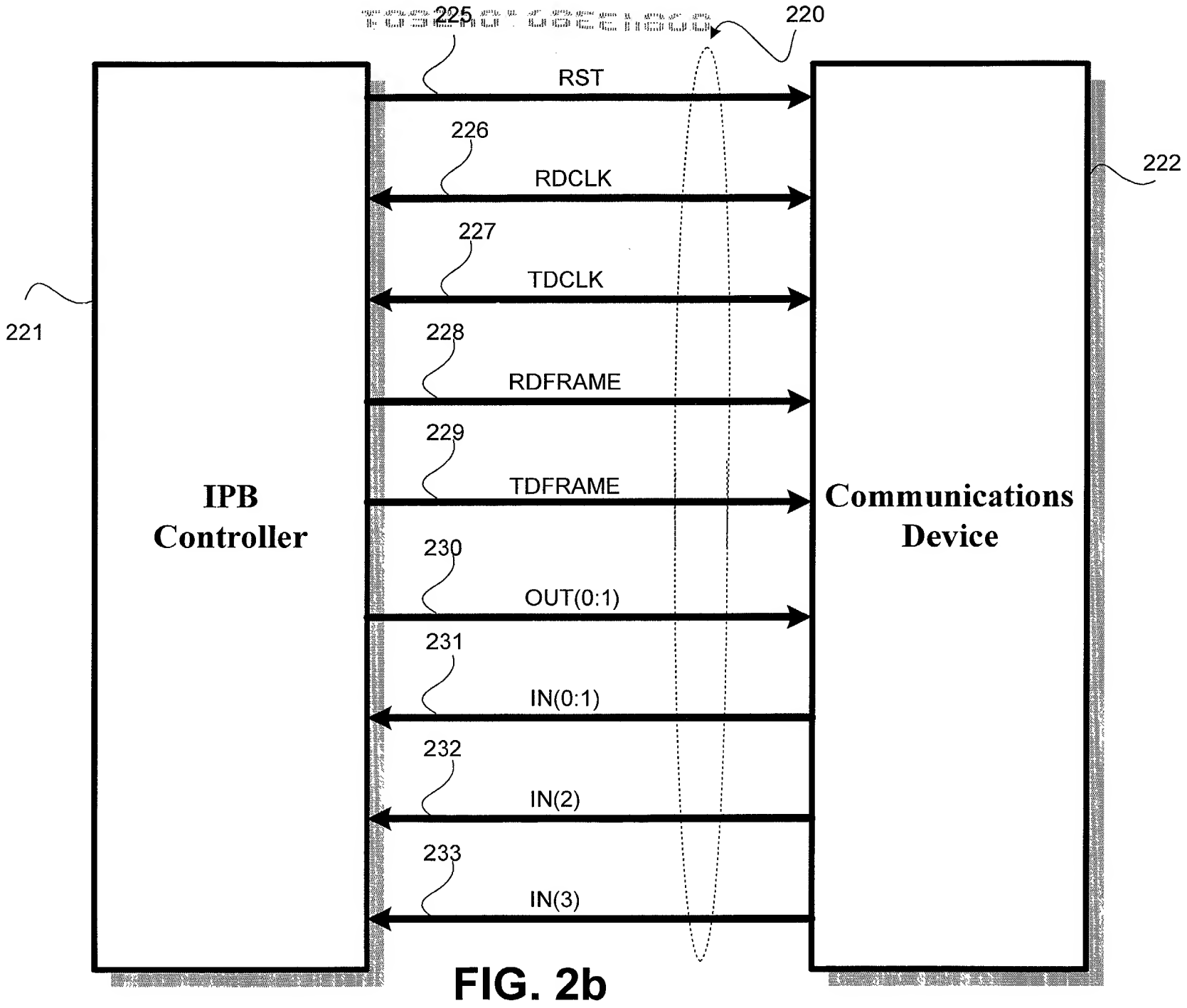
225
220
RST
226
RDCLK
222
227
TDCLK
221
228
RDFRAME
229
TDFRAME
IPB Controller
Communications Device
230
OUT(0:1)
231
IN(0:1)
232
IN(2)
233
IN(3)

FIG. 2b

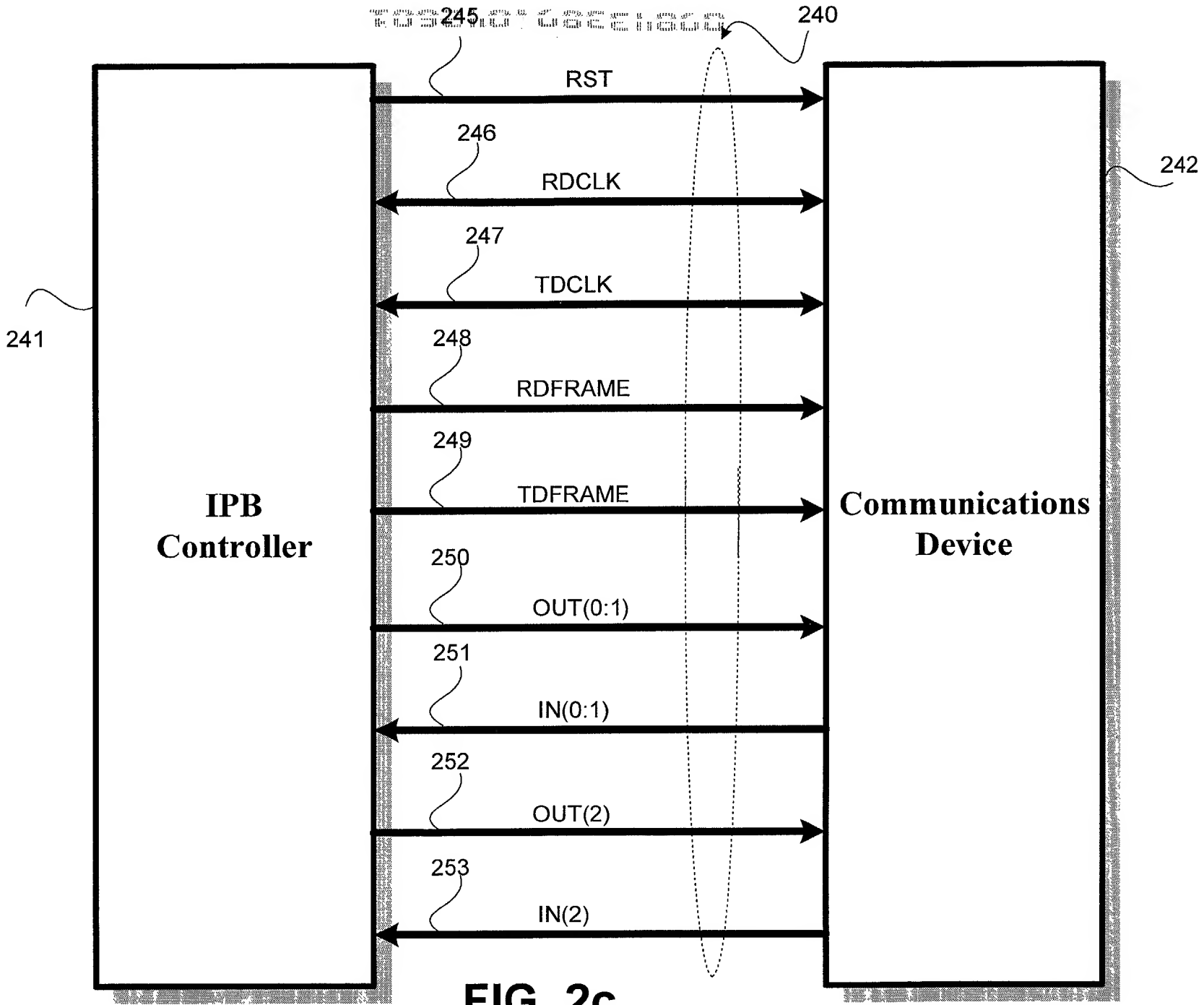
245
240
RST
246
RDCLK
242
247
TDCLK
241
248
RDFRAME
249
TDFRAME
IPB Controller
Communications Device
250
OUT(0:1)
251
IN(0:1)
252
OUT(2)
253
IN(2)

FIG. 2c

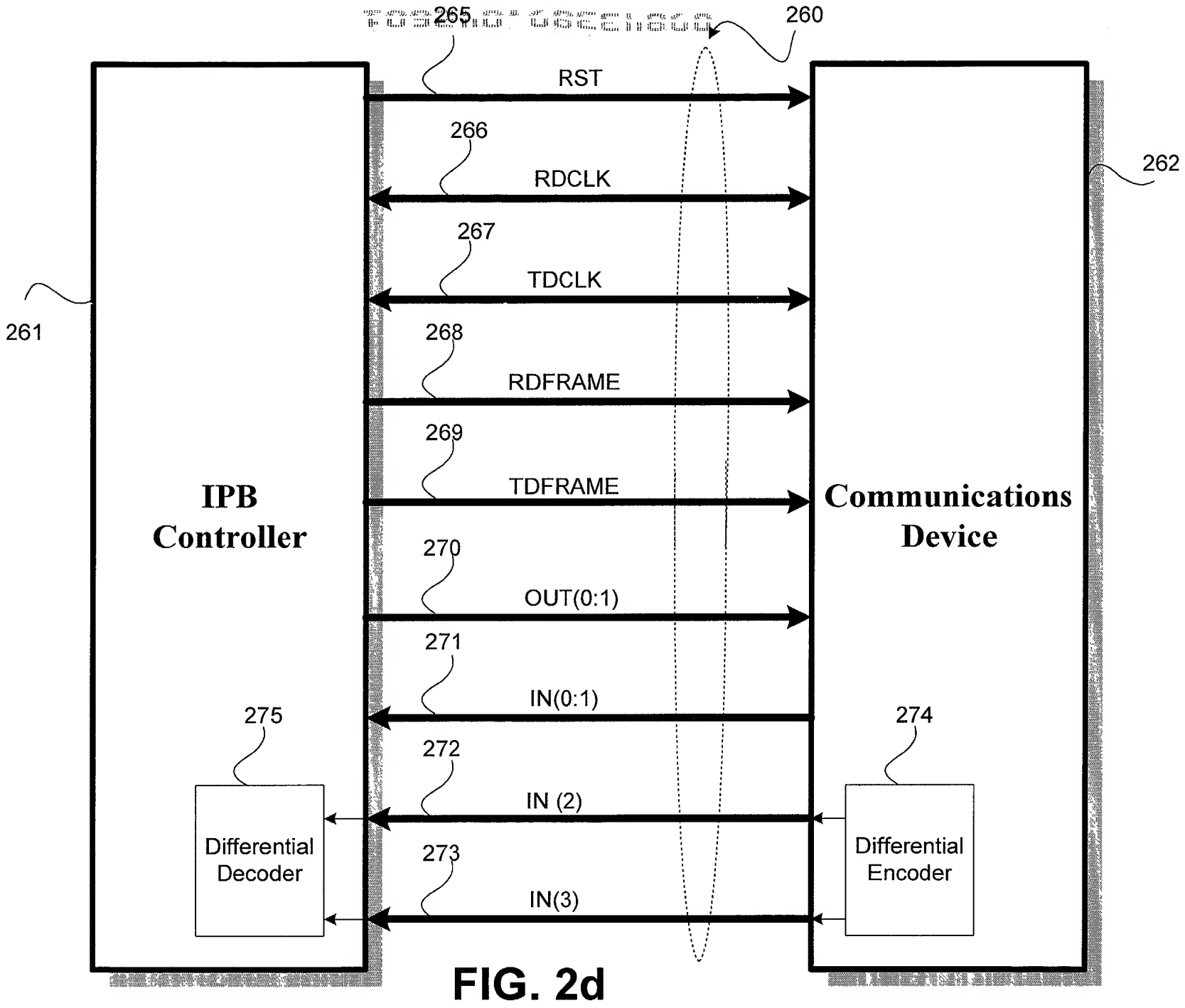
265
260
RST
266
RDCLK
262
267
TDCLK
261
268
RDFRAME
269
TDFRAME
IPB Controller
Communications Device
270
OUT(0:1)
271
IN(0:1)
275
274
272
IN (2)
Differential Decoder
Differential Encoder
273
IN(3)

FIG. 2d

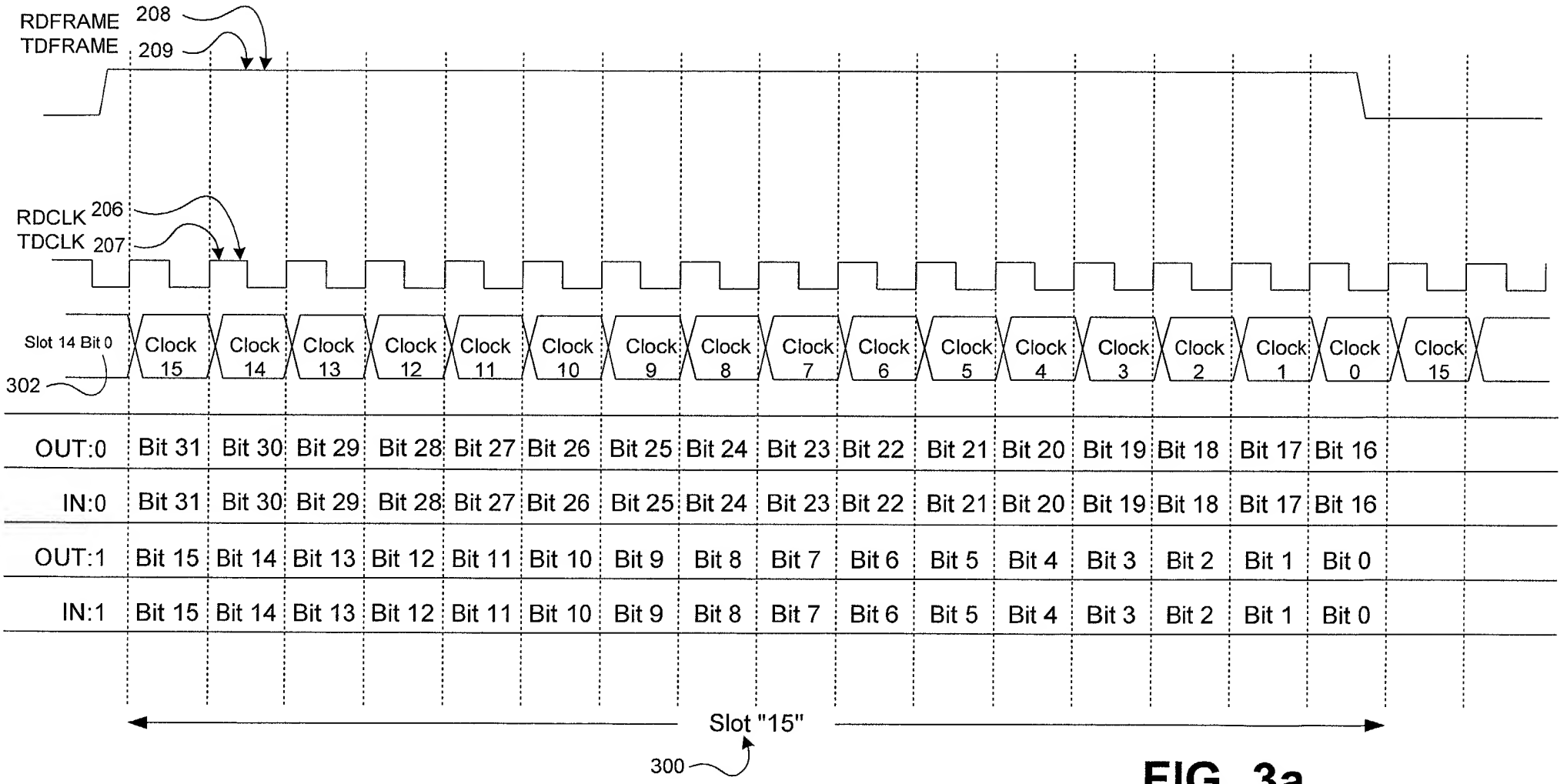
RDFRAME
208
TDFRAME
209
RDCLK
206
TDCLK
207
Slot 14 Bit 0
302
Clock 15
Clock 14
Clock 13
Clock 12
Clock 11
Clock 10
Clock 9
Clock 8
Clock 7
Clock 6
Clock 5
Clock 4
Clock 3
Clock 2
Clock 1
Clock 0
Clock 15
OUT:0 Bit 31 Bit 30 Bit 29 Bit 28 Bit 27 Bit 26 Bit 25 Bit 24 Bit 23 Bit 22 Bit 21 Bit 20 Bit 19 Bit 18 Bit 17 Bit 16
IN:0 Bit 31 Bit 30 Bit 29 Bit 28 Bit 27 Bit 26 Bit 25 Bit 24 Bit 23 Bit 22 Bit 21 Bit 20 Bit 19 Bit 18 Bit 17 Bit 16
OUT:1 Bit 15 Bit 14 Bit 13 Bit 12 Bit 11 Bit 10 Bit 9 Bit 8 Bit 7 Bit 6 Bit 5 Bit 4 Bit 3 Bit 2 Bit 1 Bit 0
IN:1 Bit 15 Bit 14 Bit 13 Bit 12 Bit 11 Bit 10 Bit 9 Bit 8 Bit 7 Bit 6 Bit 5 Bit 4 Bit 3 Bit 2 Bit 1 Bit 0
Slot "15"
300

FIG. 3a

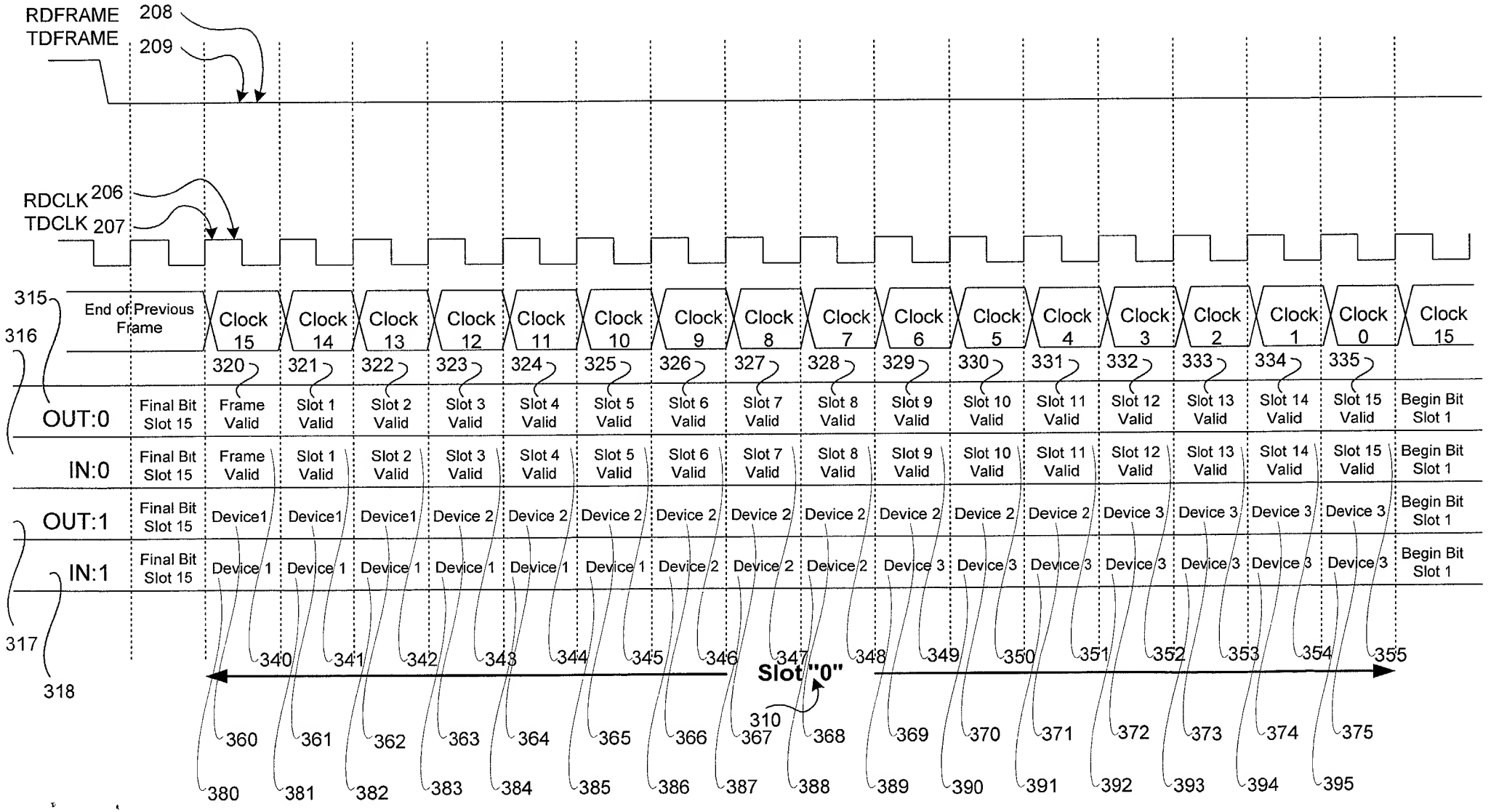
RDFRAME
TDFRAME
208
209
RDCLK
TDCLK
206
207
315
316
317
318
End of Previous Frame
Clock 15
Clock 14
Clock 13
Clock 12
Clock 11
Clock 10
Clock 9
Clock 8
Clock 7
Clock 6
Clock 5
Clock 4
Clock 3
Clock 2
Clock 1
Clock 0
Clock 15
320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335
OUT:0
IN:0
OUT:1
IN:1
Final Bit Slot 15
Frame Valid
Slot 1 Valid
Slot 2 Valid
Slot 3 Valid
Slot 4 Valid
Slot 5 Valid
Slot 6 Valid
Slot 7 Valid
Slot 8 Valid
Slot 9 Valid
Slot 10 Valid
Slot 11 Valid
Slot 12 Valid
Slot 13 Valid
Slot 14 Valid
Slot 15 Valid
Begin Bit Slot 1
Device1
Device 1
Device 2
Device 3
340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355
Slot "0"
310
360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375
380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395

FIG. 3b

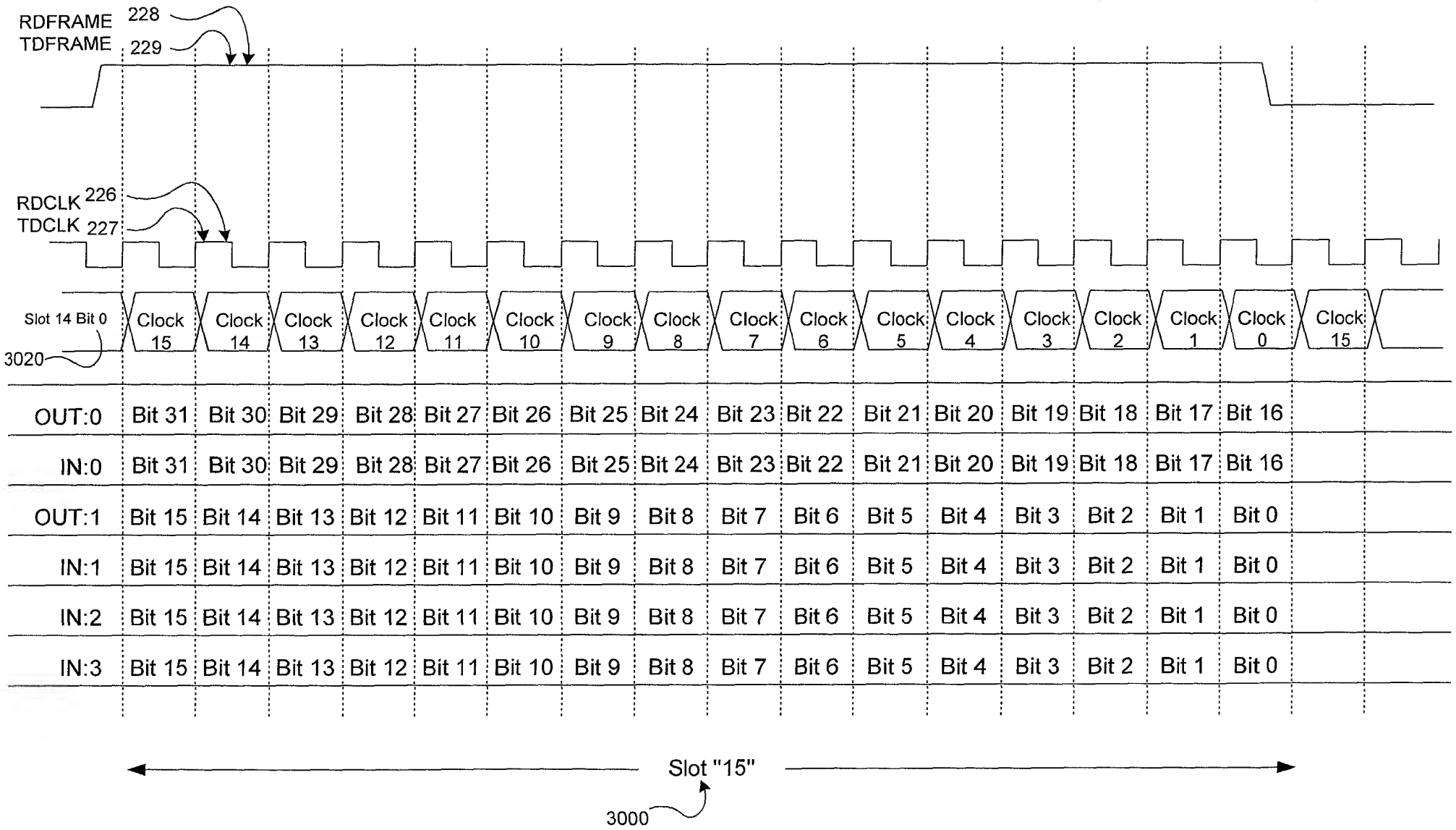
RDFRAME 228
TDFRAME 229
RDCLK 226
TDCLK 227
Slot 14 Bit 0
3020
Clock 15
Clock 14
Clock 13
Clock 12
Clock 11
Clock 10
Clock 9
Clock 8
Clock 7
Clock 6
Clock 5
Clock 4
Clock 3
Clock 2
Clock 1
Clock 0
Clock 15
OUT:0 Bit 31 Bit 30 Bit 29 Bit 28 Bit 27 Bit 26 Bit 25 Bit 24 Bit 23 Bit 22 Bit 21 Bit 20 Bit 19 Bit 18 Bit 17 Bit 16
IN:0 Bit 31 Bit 30 Bit 29 Bit 28 Bit 27 Bit 26 Bit 25 Bit 24 Bit 23 Bit 22 Bit 21 Bit 20 Bit 19 Bit 18 Bit 17 Bit 16
OUT:1 Bit 15 Bit 14 Bit 13 Bit 12 Bit 11 Bit 10 Bit 9 Bit 8 Bit 7 Bit 6 Bit 5 Bit 4 Bit 3 Bit 2 Bit 1 Bit 0
IN:1 Bit 15 Bit 14 Bit 13 Bit 12 Bit 11 Bit 10 Bit 9 Bit 8 Bit 7 Bit 6 Bit 5 Bit 4 Bit 3 Bit 2 Bit 1 Bit 0
IN:2 Bit 15 Bit 14 Bit 13 Bit 12 Bit 11 Bit 10 Bit 9 Bit 8 Bit 7 Bit 6 Bit 5 Bit 4 Bit 3 Bit 2 Bit 1 Bit 0
IN:3 Bit 15 Bit 14 Bit 13 Bit 12 Bit 11 Bit 10 Bit 9 Bit 8 Bit 7 Bit 6 Bit 5 Bit 4 Bit 3 Bit 2 Bit 1 Bit 0
Slot "15"
3000

FIG. 3c

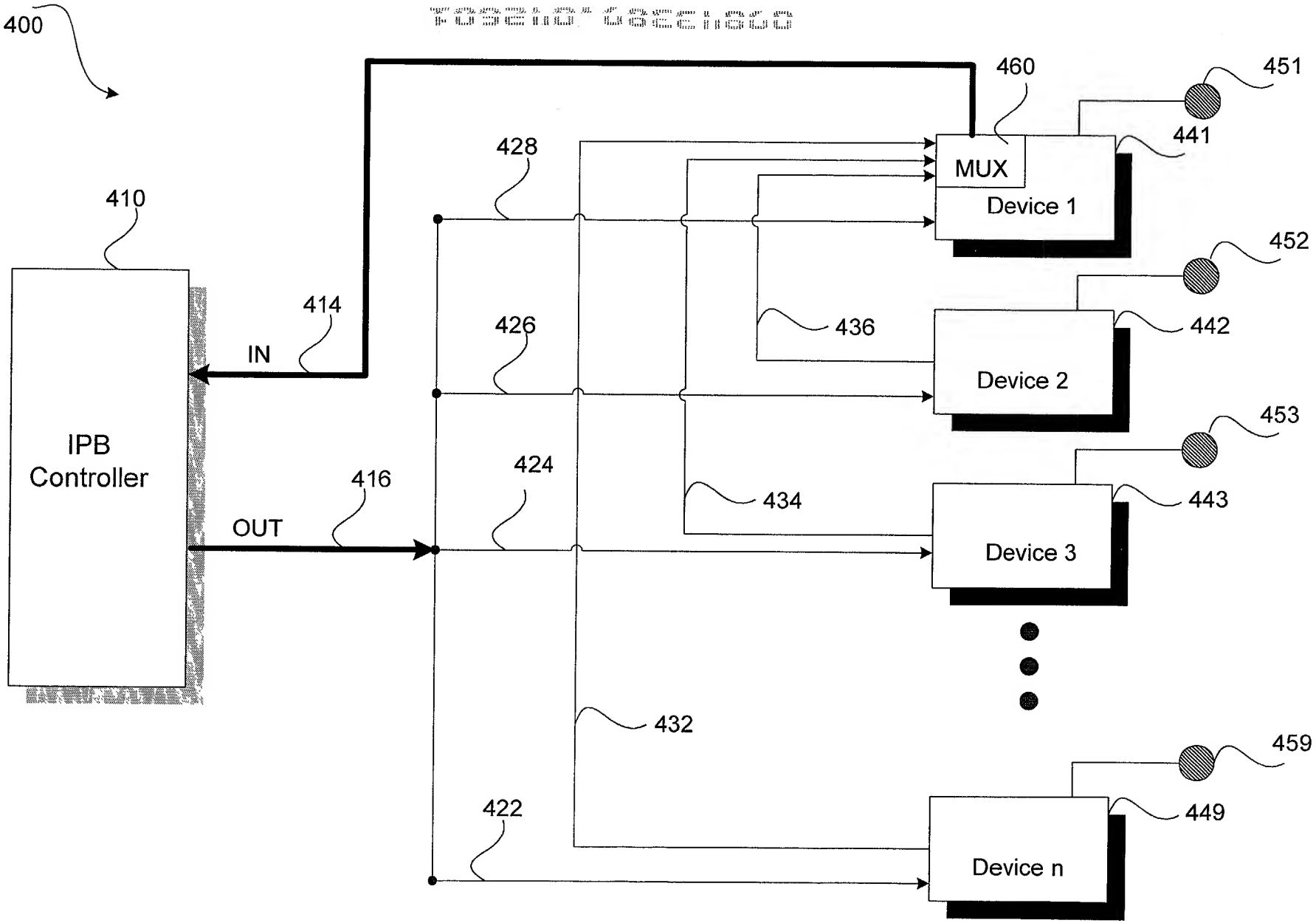
400
460
451
441
428
MUX
Device 1
410
452
414
426
436
442
IN
IPB
Controller
Device 2
453
424
416
434
443
OUT
Device 3
432
459
422
449
Device n

FIG. 4

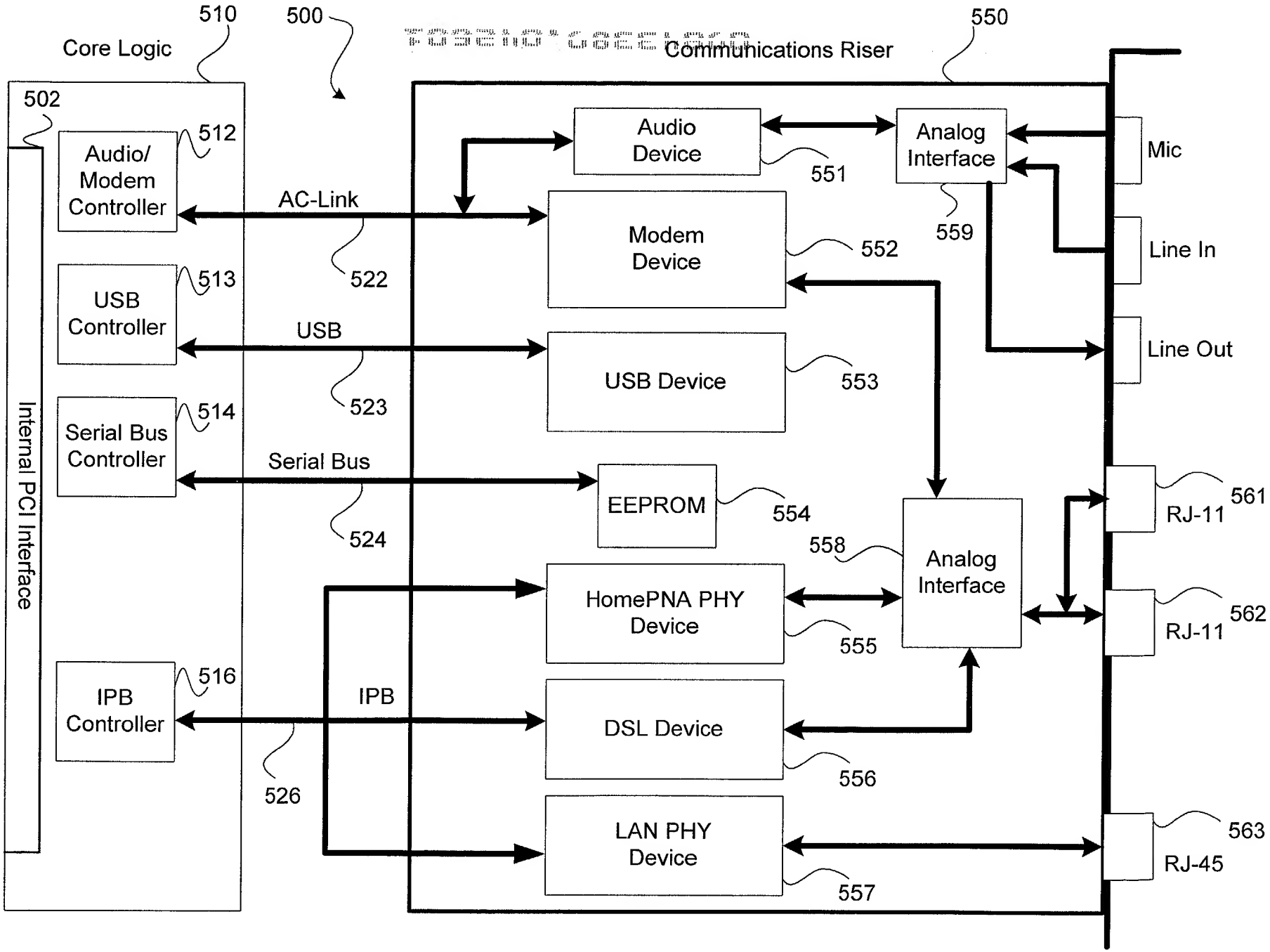
Core Logic
510
500
Communications Riser
550
502
Audio/
Modem
Controller
512
AC-Link
522
USB
Controller
513
USB
523
Serial Bus
Controller
514
Serial Bus
524
IPB
Controller
516
IPB
526
Internal PCI Interface
Audio
Device
551
Analog
Interface
559
Modem
Device
552
USB Device
553
EEPROM
554
HomePNA PHY
Device
555
DSL Device
556
LAN PHY
Device
557
558
Analog
Interface
Mic
Line In
Line Out
RJ-11
561
RJ-11
562
RJ-45
563

FIG. 5